



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

(A Centre of Excellence)

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

**DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY
(DICTM12/S-FT/S-EV)**

ECT 2106: INSTALLATION & CUSTOMIZATION

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2012

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consist of **FIVE** questions

Answer question **ONE (COMPULSORY)** and any other **TWO** questions

Maximum marks for each part of a question are as shown
This paper consists of **TWO** printed pages

Question One (Compulsory)

- a) List **THREE** key features of a Network Operating Systems (NOS) (3 marks)
- b) List **FOUR** functions of the Operating Systems. (4 marks)
- c) What are the **THREE** main uses of the UPS. (3 marks)
- d) What is the Windows Group Policy and how is it used to manage services in Windows Environment. (3 marks)
- e) List **FOUR** safety measures that technicians need to implement when performing regular computer maintenance. (4 marks)
- f) What are the **THREE** differences between Application Software and Systems Software? (3 marks)

Question Two

- a) Explain the following terms:
 - (i) Windows Registry
 - (ii) Boot Sequence
 - (iii) Device Manager
 - (iv) Control Panel
 - (v) Drivers (10 marks)
- b) Explain any **FIVE** functions that need to be considered before installing operating system on a new computer. (10 marks)

Question Three

- a) What is Plug and Play (PnP) and how does it work? (3 marks)
- b) What are the necessary steps needed to be followed when investigating a possible viral infection on a computer? (5 marks)
- c) Differentiate between a folder and a directory. (4 marks)
- d) Explain the importance of the Hardware Compatibility list in relation to Hardware and Software Installation and Upgrading. (4 marks)
- e) What is the dual boot system and how does it function on a computer. (4 marks)

Question Four

- a) Explain the function of the following on a computer. (10 marks)
 - (i) Defragmentation
 - (ii) Formatting
 - (iii) Hot swap
 - (iv) Virtualization
 - (v) Portioning

Question Five

- a) (i) Name and explain **THREE** types of translators. (6 marks)
- (ii) Outline **THREE** guidelines for designing a good pseudocode. (3 marks)
- b) (i) Name any **THREE** types of selection controls used in most high level programming language. (3 marks)
- (ii) Name the **THREE** main looping controls. (3 marks)

